				UTAH (	OIL A	ND GAS CONS	ERVATION C	OMMISSIO	)N	•	<b>,</b>	
REMARKS:	WELL LOG	•	ECTRIC LOGS	FILE	X	_WATER SANDS	LOCAT	ION INSPECTI	ED	SUB.	REPORT/abd	1
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		•	-									
DATE FILED		9-10-84	·									
LAND: FEE &			LEASE NO.			PU	BLIC LEASE NO.	U-4	0414		INDIAN	
DRILLING APP	ROVED:	9-12-84	- OIL							···		
SPUDDED IN:												
COMPLETED:			PUT TO PRO	DUCING:		· · · · · · · · · · · · · · · · · · ·						
INITIAL PROD	UCTION:								•			
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PRODUCING 2	ZONES:		(_	D/M	X	e den	cla	<b>: (</b> °				
TOTAL DEPTH	1:				_							
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FIELD:	WILDCA	VI '										
UNIT:	DEER I	RANGE										
COUNTY:	KANE											
WELL NO.	DEER F	RANGE L	NIT FEDER	AL #1					API #	43-025-3	0020	
LOCATION	1155'		FT. FROM (N) (S) LIN		F	EL '	T. FROM (E) (W)	LINE.	NWNE		1/4 - 1/4 SEC	33
TWP.	RGE.	SEC.	OPERATOR				TWP.	RGE.	SEC.	OPERATOR		
						·	395	3W	33	BOSWELL	ENERGY	CORP.

SEP 1 0 1984



DIVISION OF OIL GAS & MINING

### The Taha Corporation

September 5, 1984

State of Utah
Div. of Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City 84114

#### Gentlemen:

Enclosed are two copies of an application for drilling permit for #1 Deer Range Federal, Kane County, Utah. Please note we are requesting information on this well be treated as confidential.

We are requesting an exception to the location rules to allow a location 130' from the west boundary and 160' from the south boundary of the NE/4 of section 33. This exception is being requested for topographic reasons, due to a 700' deep canyon to the east and south, which reasonably prevents us from locating in the center of the NE/4.

There are no producing oil or gas wells for 20 miles in any direction. Further, oil and gas leases covering all of section 33 are held by the same group which is applying to drill the proposed well.

We are currently planning to buy water from a local rancher. Will we still be required to obtain an approval from the Utah Div. of Water Rights? Please advise.

Sincerely,

Steven H. Findeiss

Tel. 405 840-1199

Form 3160-3	j Sam-	-	. — 1 AUS	III IN TRI CAT			
(November 1983) (formerly 9-331C)	UNI	TED, STATES		er instructions on reterse side)	Budget Bureau No. 1004-0136 Expires August 31, 1985		
	DEPARTMEN	TO THE IN	LEGIOR .		5. LEASE DESIGNATION AND SERIAL NO.		
	BUREAU	ANDWANAGE	EMENT		U-40414		
APPLICATIO	N FOR PERMIT	TO DRILL, D	EEPEN, OR F	PLUG BACK	6. IF INDIAN, ALLOTTES OR TRIBE NAME		
1a. TYPE OF WORK	RILL 🛛	DEEDEN!	1	HC DACK	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	KILL (A)	DEEPEN _	) PL	UG BACK 🗆	Deer Range		
	GAS OTHER		SINGLE ZONE	MULTIPLE ZONE	S. FARM OR LEASE NAME		
2. NAME OF OPERATOR	Wadd Co Vinus			20112	Federal		
Boswell Ene	rgy Corporation				9. WELL NO.		
3. ADDRESS OF OPERATOR					#1		
6600 N. Har	vey, Suite 100,	Oklahoma Cit	y, OK 73116		10. FIBLD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (	Report location clearly an	d in accordance with	any State requireme	ents.*)	Wildcat		
	2510' FEL (NWNE)	)			11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		
At proposed prod. so Same	one				.33-T39S-R3W, SLM		
	AND DIRECTION FROM NE	AREST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH   18. STATE		
					Kane Utah		
15. DISTANCE FROM PRO- LOCATION TO NEARE PROPERTY OR LEASE	8T 130' to a	lease owned	16. NO. OF ACRES IN 320		OF ACRES ASSIGNED THIS WELL 160		
18. DISTANCE FROM PRO	DRILLING, COMPLETED,	none tal	19. PROPOSED DEPTH 7,000 A	20. ROT	ROTARY		
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.) elevation	<u></u>		<del>V</del>	22. APPROX. DATE WORK WILL START*  10 October, 1984		
23.		PROPOSED CASING	AND CEMENTING	G PROGRAM	1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING	DEPTH	QUANTITY OF CEMENT		
18''	14"	conductor	40'	50 s	x Ready-mix		
12½"	9-5/8"	36# K-55	1700	570	sx, circ. to surface		
8-3/4"	7"	23826# K-55	7000	250	sx minimum		
or 5-1/2" 17# K-55 7000" 250 sx minimum					sx minimum		
drill conve	ntionally to TD.	. Anticipate	d drilling t	ime to 7,000			
	hydraulic blowd to 3,000 psi wd				e rams) will be		
	ecked to 1000 ps	i before dri APPROVE		STATE	RECEIVED		
		OIL, GA	S, AND MI 19/12/84	NING	SEP 1 0 1984		

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to deliber or proposed is to deliber or proposed is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical GAMS &GMINIMO preventer program, if any.

24.

SIGNED DATE 24 August 1984

(This space for Federal or State office use)

APPROVED BY

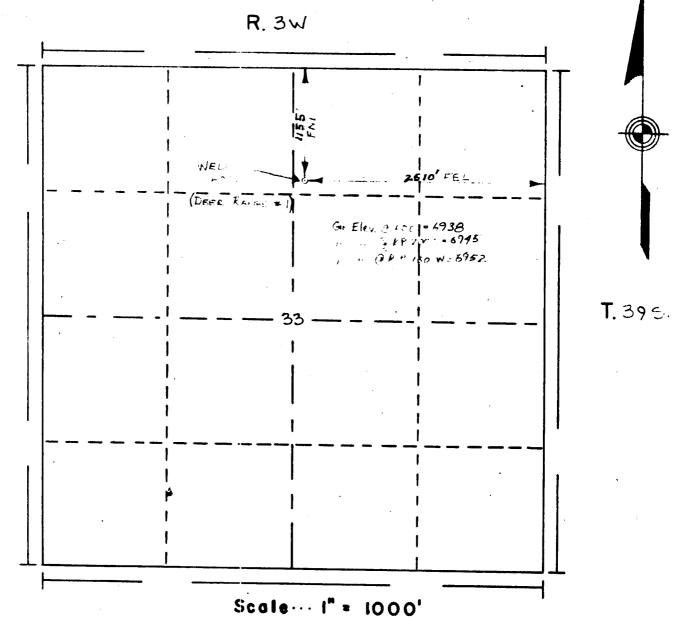
CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO.

APPROVAL DATE

DATE ....





Powers Elevation of Denver, Colorado
has in accordance with a request from Steve Finders
for Boswell Energy
determined the location of Deer Range # 1
to be 1155' FNL & 2510' FEL of Section 33 Township 39 Range 3 Wort of the Salt Lake Meridian
Kanie County, Utah

I hereby certify that this plat is an accurate representation of a correct survey showing the location of

Date: Jur 27, 1984

Licensed Engineer
State of Colorado

No 20596 "Utah exception N

STATE COPY

Mr. Ed Guynn Fluid Minerals Branch BLM Utah State Office Salt Lake City

24 August, 1984

Dear Mr. Guynn:

We hereby apply for a drilling permit for "#1 Deer Range USA," to be located in NWNE 33-39S-3W, Kane county, Utah. This is the initial test well for the Deer Range Unit, whose effective date is 23 April, 1984. We anticipate spudding around 10 October.

Form 3160-3 is attached hereto. The drilling plan, consisting of a drilling program and a surface use program, is given below.

#### DRILLING PROGRAM

1. Estimated tops of important geologic markers: Navajo 50' Kaibab 3850' Redwall 6900'

- 2. Fresh water is expected in the lower 1000' of the Navajo sandstone (600-1600'). This zone will be protected by air- or mist drilling, then setting 9-5/8'' casing through the zone. Oil may be encountered in the Kaibab (3850-4000') and in the Redwall. Any shows will be tested.
- 3. Pressure control equipment will consist of two series-900 hydraulically actuated blowout preventers in tandem, one equipped with pipe rams, the other with blind rams. Each preventer will be rated to 3,000 psi. The pipe rams will be operated daily. The blind rams will be checked for operation when the drill string is out of the hole. Surface casing and BOP will be pressure-checked to 1000 psi before drilling out.
- 4. Supplementary information on drilling equipment: We anticipate using a relatively small rig, possibly a drive-in type, in order to minimize the number of truck loads needed.

#### 5. Circulating material:

Surface to 1700': Air, mist or foam
1700' to 7000': Water-base mud, 8.5 ppg, 32-36 sec viscosity,
water loss 8-10 ml./30 min. Mud may be aerated to further reduce weight
where lost circulation is anticipated (see item 7 below for expected
pressures). A gas detector will be used to monitor mud.

6. We anticipate drillstem testing the Kaibab and Redwall. Electric logs will be run to TD. No coring is anticipated.

7. All wells in this region have shown the underlying formations to be severely underpressured. This underpressure condition apparently exists for tens of miles in all directions, as well as in the nearest test, the PanAm ''Paria 1-X'' in 16-40S-2W, about 6 miles southeast. Bottomhole pressure is expected to be less than 2000 psi, with normal temperature.

No hydrogen sulfide or other noxious gas has been reported in other wells in the general area, and none is expected in this test. In any event no towns or settlements are located within several miles.

8. Other information: A request was made by BLM field personnel that if the well is plugged, it be capped flush with ground level, rather in the manner prescribed by the state of Utah. If the state will allow this variation, we will be glad to comply with this request.

#### SURFACE USE PROGRAM

#### 1. Existing roads:

The location is at the end of the "Deer Range Road" (plat attached), which is apparently an old logging road running south about 4.8 miles from the county-maintained Kanab-Cannonville road. The Deer Range Road generally follows the elevation contours. It was bladed at some time in the past, and the cuts and embankments are quite noticeable. Near the south end of the road, dead trees cleared to create the original roadway are prominent.

All roads will be maintained in their existing condition, except for the slight improvements noted below.

#### 2. Roads to be constructed: none

Road modifications proposed:

In accordance with the guidelines developed by BLM field personnel following an inspection of the access road and drillsite, very little improvement of the Deer Range Road is planned. The minor improvements that are planned will be essentially undetectable to the casual visitor.

The road surface will be very lightly bladed in the most heavily eroded sections, and about 3 one-foot-diameter culverts will be installed in existing narrow drainages (6 or 8 inches wide and about one foot deep) which cut across the road. The hairpin turn in NW4 of section 28 will be given a larger radius, but this will not require cutting any trees or doing any sensible earthmoving, since the area for the necessary 20 feet on the outside of the existing turn is level and clear.

In view of the lack of casual traffic and the objective of not improving access to a sensible degree, we propose to leave the road at its existing single-lane width. If this is approved, about five turnouts would be provided to allow vehicles to pass.

3. Existing wells within one mile: none.

- 4. Location of existing/proposed facilities if well is productive: A pump would occupy approximately a 15' x 30' area over the well. Tanks could be located to best suit aesthetic criteria. In the event of a discovery, the tanks could possibly be located at the turnoff from the Kanab-Cannonville road to the Deer Range Road. Generally, this information cannot be accurately presented at this time.
- 5. Water supply: Commercial sources, either at Kanab or Cannonville, trucked to the location.
- 6. Construction materials: The drill pad will be made from material removed from the reserve pit and from the uphill edge of the pad. No other local construction material will be utilized.
- 7. Methods for handling waste Disposal: Ordinary trash, sewage, and chemicals and any oil or salt water produced during testing will be trucked out and disposed of in approved commercial facilities. The reserve pit will be lined with 15 mil PVC liner to prevent seepage. Since the drilling fluids to be used are water-based, the reserve pit will be allowed to dry out and will then be filled in.
- 8. Ancillary facilities: None.
- 9. Well site layout: Plat is attached. Three sides of the reserve pit will be fenced during drilling, with the fourth side fenced when drilling is completed.
- 10. Plan for Reclamation of the Surface: After the pits have dried(1-2 months after well completion), the area will be graded to approximately the original contours. The drill pad will then be replanted and re-seeded as follows:

Pinon pine - 10 seedlings per acre
Juniper - 10 seedlings per acre
Birch leaf mountain mahogany - 10 plants per acre
Antelope bitter brush - 1 pound of seed per acre
Yellow sweet clover - 1 pound of seed per acre
Indian rice grass - 1 pound of seed per acre
Galleta - 1 pound of seed per acre

Seedlings will be mulched. Re-seeding and re-planting will take place next spring, with human reclamation actions completed by June, 1985.

Note that proposed site reclamation will not affect the already-existing road berms or banks, nor the substantial number of dead trees piled beside the road from when it was originally bladed some years ago.

- 11. Surface ownership: The well location is federally owned, as are the lands crossed by the Deer Range Road, except that section 16 is owned by the state of Utah.
- 12. Additional information: This application was prepared by Steve Findeiss (tel. 405 840-1199) in conjunction with information supplied by the operator and BLM personnel, and following inspections of the location on 27 May and 15 August, 1984.

13. Operator's field representative:

Mr. John Gordon Gordon Engineering P. O. Box 3525

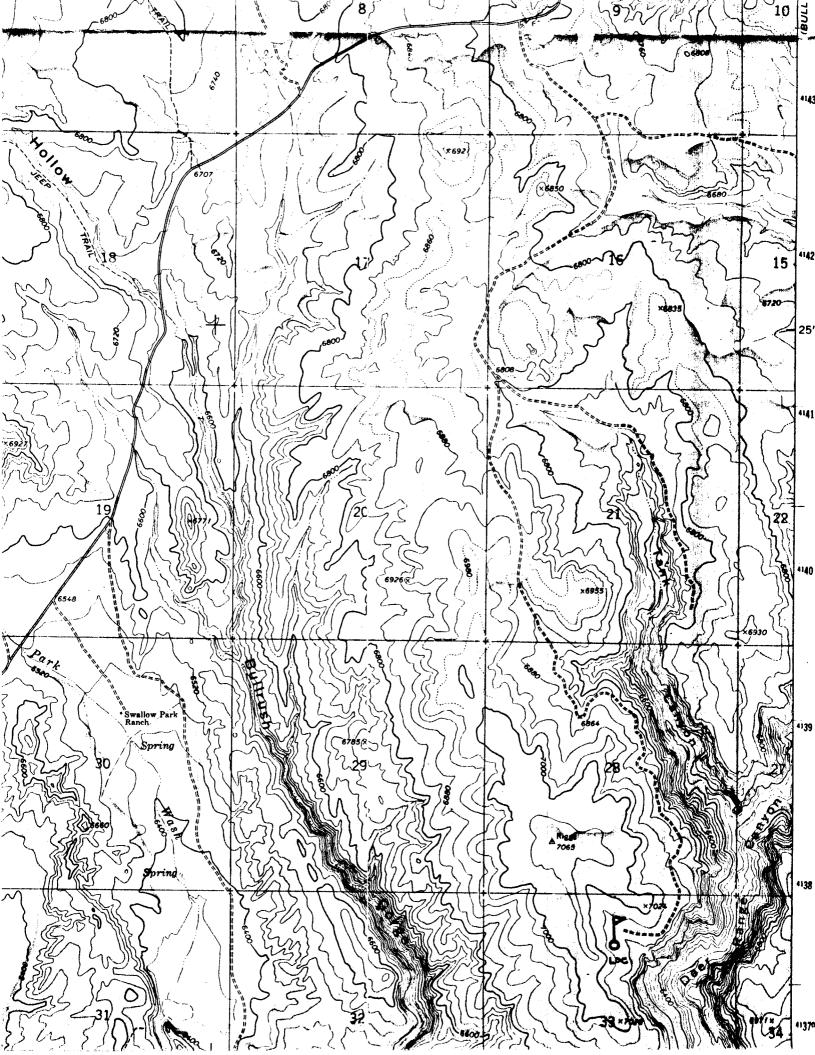
Grand Junction, CO 81502

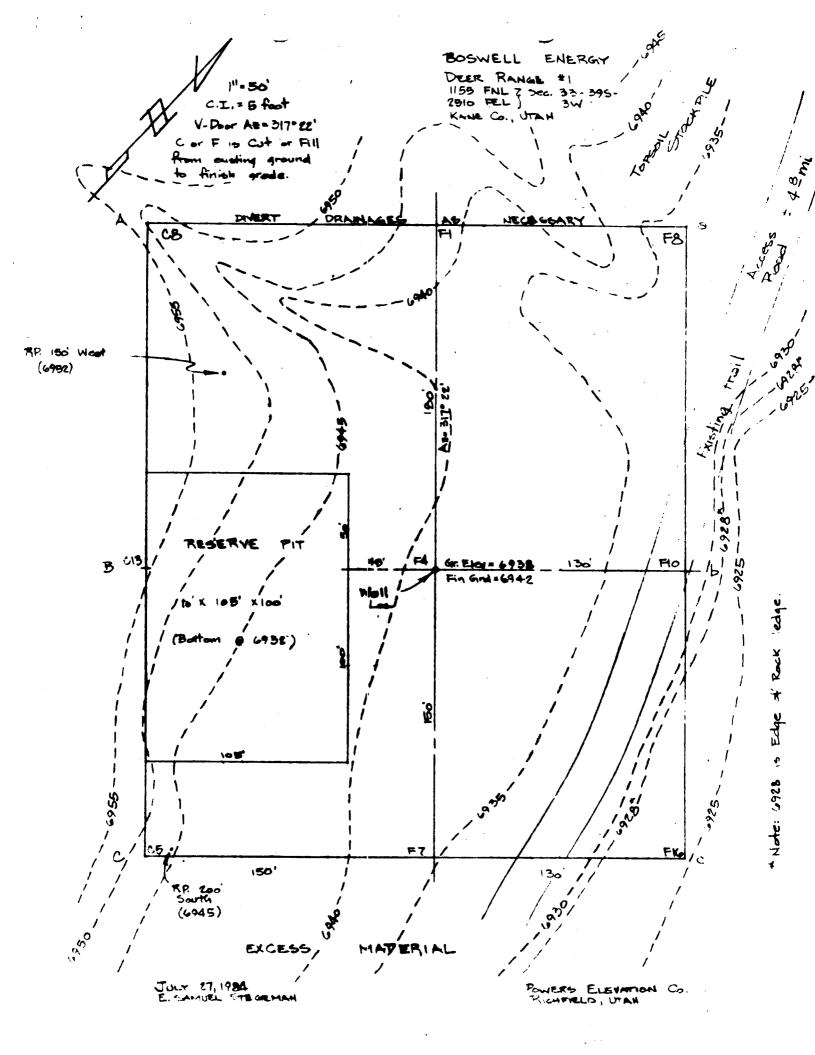
303 245-1958

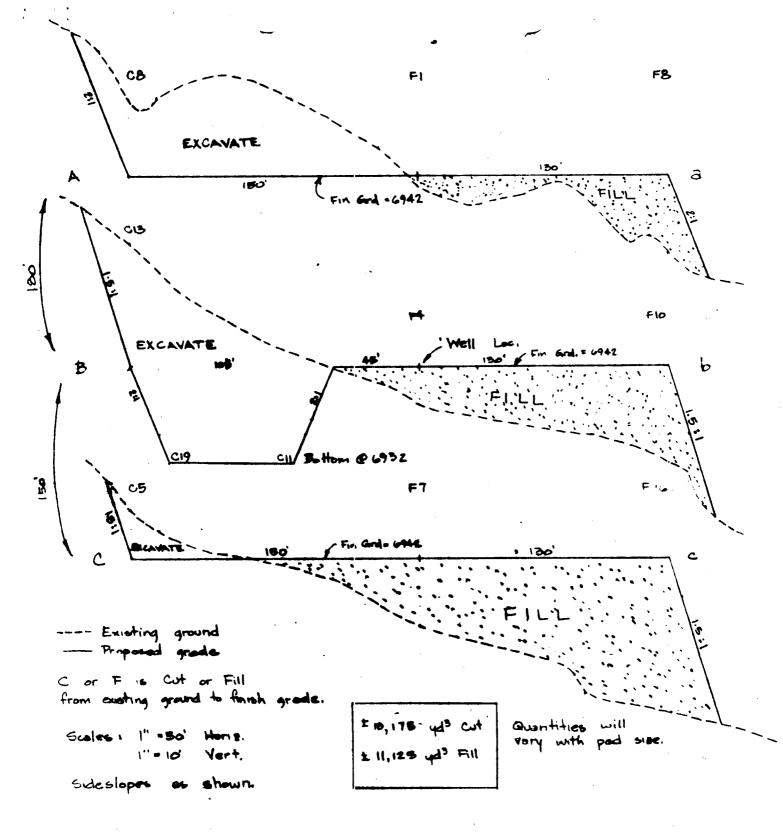
I certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Boswell Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Steven H. Findeiss

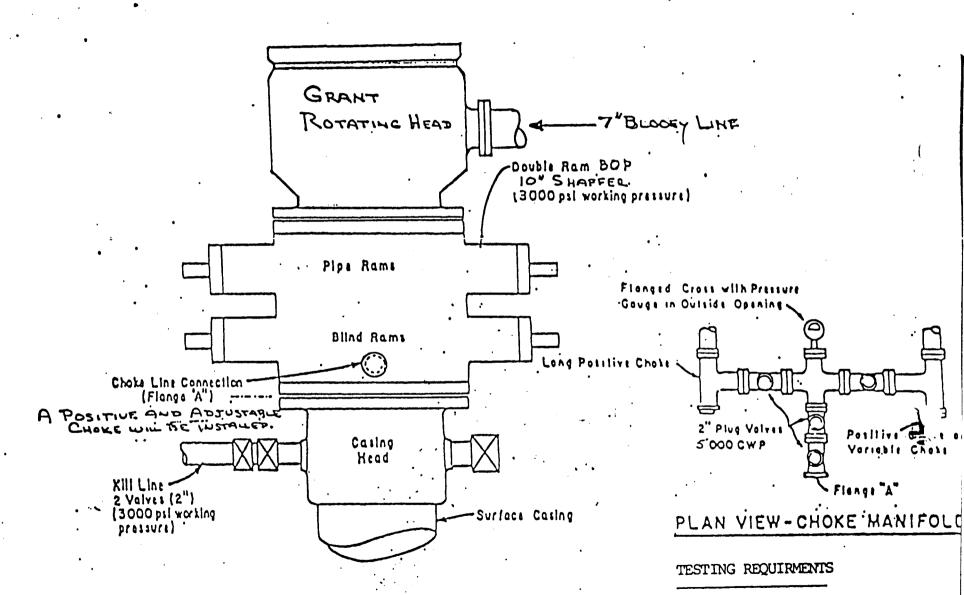
Agent for Boswell Energy Corporation







BOSWELL ENERGY DEER RANGE \*1 NW-NE 33-595-3W KANE CO, UTAH



Pipe rams: operated daily

Blind rams: operated and closed

every opportunity.

Accumulation: Checked daily



## United States Department of the Interior

IN REPLY REPER TO

3104 (U-942)

BUREAU OF LAND MANAGEMENT UTAH STATE OFFICE 136 E. SOUTH TEMPLE SALT LAKE CITY, UTAH 84111

AUG 1 3 1984

#### DECISION

Boswell Energy Corporation

6600 N. Harvey

Oklahoma City, Oklahoma 73116

: \$50,000 Statewide

Oil and Gas Bond

(Nevada and Utah)

#### Bond Accepted

A \$50,000 statewide oil and gas bond, unnumbered, was filed in this office on August 8, 1984. The bond was executed August 6, 1984, with Boswell Energy Corporation as principal and The Travelers Indemnity Company as surety.

This bond constitutes coverage in the States of Nevada and Utah for obligations under oil and gas leases held or hereafter acquired by the principal, including lease offers, assignments, operating agreements, etc., issued under the authority of the Mineral Leasing Act of 1920, as amended, and the Mineral Leasing Act for Acquired Lands, as amended. The bond is satisfactory and is hereby accepted effective August 8, 1984, the date of filing.

Coverage under your statewide bond will not, however, extend to include additional principals, and the coverage does not extend to any lands where the principals are or become the unit operator but do not own the record title or operating rights in such lands either solely or jointly with others whose interests are likewise covered by appropriate bonds.

Chief, Minerals

Adjudication Section

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SPEC	TAL LA	NGUAGE:	te						

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MA
AUTHENTICATE LEASE AND OPERATOR INFORMATION
VERIFY ADEQUATE AND PROPER BONDING
AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
APPLY SPACING CONSIDERATION
ORDER
UNIT
c-3-b
с-3-с
CHECK DISTANCE TO NEAREST WELL.
CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.
VERIFY LEGAL AND SUFFICIENT DRILLING WATER

# CONFIDENTIAL



4241 State Office Building • Salt Lake City, UT 84114 • 8(11-533-5771

September 13, 1984

Boswell Energy Corporation 6600 N. Harvey, Suite 100 Oklahoma City, Oklahoma 73116

#### Gentlemen:

RE: Well No. Deer Range Unit Federal #1 - NWNE Sec. 33, T. 39S, R. 3W 1155' FNL, 2510' FEL - Kane County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

 Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

- Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
- 4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Boswell Energy Corporation
Well No. Deer Range Unit Federal #1
September 13, 1984

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-025-30020.

Sincerely,

Associate Director, Oil & Gas

as Enclosures

cc: Branch of Fluid Minerals

United States Department of the Interior

3000 UT-042

BUREAU OF LAND MANAGEMENT Cedar City District Office P.O. Box 724, 1579 North Main Street Cedar City, Utah 84720 (801) 586-2401

October 5, 1984

Boswell Energy Corporation 6600 N. Harvey Suite 100 Oklahoma City, Oklahoma 73116

007 \$ 1984

Attn: Steven H. Findeiss

Dear Mr. Findeiss:

On September 10, 1984, the BLM received the Application for Permit to Drill (APD) the Deer Range Federal # 1, located in T. 39 S., R. 3 W., NWNE, Section 33. The Cedar City District is making every effort to process the application as expediously as possible. However, because the proposed well is located within the Paria-Hackberry wilderness study area, there are important differences in processing this APD than there would be for a well that is not located in a wilderness study area. Because wilderness study areas are managed under strict guidelines to ensure non-impairment of wilderness values, and because of the controversy often resulting from proposed actions in these areas, we feel that ample opportunity must be allowed for adequate public involvement in the approval process.

The process we are following consists of notifying all interested parties by mail of the proposed action and that we are in the process of completing an environmental analysis. Those who choose to provide input based on this notification, as well as others who request it, will be sent a copy of the environmental analysis, when completed, for comments. The EA will then be finalized and a decision document prepared. Assuming the decision is to approve the APD, a minimum of 15 additional day's time must be allowed to give interested parties sufficient time to prepare a response, legal or otherwise, to the decision.

This process will not permit final action on the APD before December 15, 1984. While we regret any inconvenience or delays the above procedure may cause, we feel there must be time for full public involvement in the process. Since the affected unit will expire after October 23, 1984, unless the obligation well is spudded, and since we do not foresee approval of the APD prior to December 15, 1984, we encourage you to apply for an extension on your obligation date if you do not wish to risk expiration of the unit. This request should be made directly to the State Director, Bureau of Land Management, Utah State Office, University Club Building, 136 East South Temple, Salt Lake City, Utah 84111.

Morgan S. Jensen District Manager

cc: Bill Martens, UT-922

Rex Rowley, Kanab Resource Area



## The Taha Corporation

October 29, 1984

Mr. John Baza Utah Oil & Gas Commission **Drilling Permit Section** Salt Lake City

mating 15 December for the issue date.

RECEIVED

NOV 05 1384

Dear John:

DIVISION OF OIL The BLM has delayed issuance of a drilling permit for our GAS AND HOLDER Federal wildcat in 33-39S-3W, Kane County. As noted in the enclosed letter from Morgan Jensen of their Cedar City office, they're esti-

As this would put us on location in the worst of the winter, we've asked for a six month extension on the unit. If granted, we would probably be spudding around I April of next year.

Just as soon as we hear from the BLM as to how long an extension they will grant, we'll be in touch with you.

Sincerely,

Steve Findeiss

Agent for Boswell Energy

Encl: 1tr from BLM 5 Oct. 84

1884 MON -5 WH & 00

Anto aras ara REARROW





## United States Department of the Interior

3000 CCDO #007-84

BUREAU OF LAND MANAGEMENT

Cedar City District Office P.O. Box 724, 1579 North Main Cedar City, Utah 84720 (801) 586 2401

November 15, 1984



DIVISION OF Orl, GAS & MINING

Dear Citizen:

As requested, we have enclosed a copy of the draft environmental assessement (EA) on the Boswell Energy Coporation's Application for Permit to Drill (APD) a test oil well, the Deer Range Federal #1, located in  $NW_4$   $NE_4$  Section 33, T39S, R3W.

Any comments you wish to be considered in development of the final EA and decision on the APD must be received in this office by December 15, 1984.

District Manager

Enclosure (1)

#### ENVIRONMENTAL ASSESSMENT

UT-040-84-96

BOSNELL ENERGY APD

Paria Hackberry WSA

LEASE NO. U-40414

(NW4NE4 Section 33, T. 39 S., R. 3 W)

KANE COUNTY, UTAH

PREPARED BY:

Pete Kilbourne

Kanab Area Geologist

Cedar City District, BLM

NOV 20 1984

1104 20 1501

DIVISION OF OIL, GAS & MINING

#### PARTICIPATING STAFF:

Blaine Lunceford - Range Conservationist

Mark Littlefield - Wildlife Biologist

Phil Damon - Recreation Planner

Max Hodson - Soil Scientist

#### BOSWELL ENERGY APD - PARIA HACKBERRY WSA

#### DECISION RECORD/RATIONALE/MITIGATION

#### ENVIRONMENTAL COMPLIANCE:

A review of the Environmental Assessment and mitigating measures indicates that the proposed action would not result in significant impacts to the human environment. Therefore, an Environmental Impact Statement is not required to further analyze the environmental effects of the proposed action.

#### **DECISION**

Boswell Energy will be allowed to drill the Deer Range exploratory oil and gas well in NW $\frac{1}{2}$ NE $\frac{1}{2}$ Section 33, T. 39 S, R 3 W SLM on oil and gas lease U-40414 as proposed in the APD subject to the "Conditions of Approval for Notice to Drill".

#### RATIONALE

The existing access will create no new impacts to the Paria Hackberry WSA. The impacts of the drill site will be temporary in nature, the site is substantially unnoticeable in the Wilderness Study Area as a whole, and the site can be reclaimed to the point where natural succession is occurring. Thus, the proposed action with mitigating measures meets the nonimpairment criteria of the Interim Management Policy and Guidelines for Lands Under Wilderness Review.

#### MITIGATION

See the "Conditions of Approval" for "Notice to Drill" and Section on Mitigation in the Environmental Assessment.

Prepared by: Ranab Area Geologist	11/7/84 Date
Recommended by: Area Manager	Date
Reviewed by: David J. Event Environmental Coordinator	11 - 7 - 8 <del>9</del> Date
Approved by:	Date

#### I. INTRODUCTION

An Application for Permit to Drill (APD) a wildcat exploratory oil and gas well has been submitted by Boswell Energy Company. The application follows an onsite investigation conducted with BLM personnel and Steve Findeiss of Boswell Energy/Taha Corporation, and numerous phone communications between Steve Findeiss and Pete Kilbourne of BLM. During the onsite and phone communications, environmental concerns were discussed in order to mitigate potential impacts. Topics discussed included: access; drill pad construction; air, water and visual quality; Interim Management requirements for Lands Under Wilderness Review; reclamation; post exploration road use; waste disposal; and alternative access and drill sites.

#### Purpose and Need

The purpose of the action is to explore for a potentially valuable oil and gas resource within Boswell oil and gas lease 40414, to obtain subsurface geologic information for future exploration, and to satisfy the drilling requirement of a unit agreement.

#### II. DESCRIPTION OF ALTERNATIVES

#### A. Proposed Action

The proposed action is to drill an exploratory wildcat oil and gas well in NW4NE4 Section 33, T 39 S, R 3 W within the Paria Hackberry Wilderness Study Area (see maps 1 and 2). The action includes a 2 acre drill pad to be constructed within the WSA. A hairpin curve outside the WSA would have its radius extended by 20 feet to permit drill rig access. The area of disturbance would be about one-tenth of an acre. The area is level and free of trees. In addition, some light grading of the existing access road would be required on the most highly eroded areas and the placement of three 12 inch culverts. Measures for protection of the surface are described in detail in Surface Use Program of the APD, Appendix A.

#### B. No Action Alternative

This alternative would deny the proposed action.

#### C. Other Alternatives Considered But Not Analyzed

Other alternatives for access and drill site location were discussed during the onsite investigation prior to submission of the APD. They included directional drilling and helicopter access. These options were not analyzed because they would not solve any significant impacts created by the proposal.

#### III. AFFECTED ENVIRONMENT

#### A. Topography

Topography from the junction of the Skutumpah Road and the existing access to the drill site crosses rolling pinyon and juniper hills, sage flats, and a few minor drainages.

The proposed site is 1/4 mile within the Paria Hackberry Wilderness Study Area on the east side of the ridge of Mud Point. The existing access to the proposed site follows a contour above nearly horizontal rock strata on the eastern sideslope of the ridge of Mud Point. The road lies approximately 150 vertical feet from the ridgetop and 600 feet above the bottom of Deer Range Canyon. The sideslope above the road averages approximately 10 percent. Below the road, the canyon walls drop steeply to the canyon bottom.

The drill site lies on a bench above the resistant rock strata and topographically varies from flat to a 5 percent sidelope along the western edge of the proposed pad. The southeastern corner of the proposed pad lies on a 5 - 8 percent rocky east facing sideslope immediately above Deer Range Canyon.

#### B. Geology and Mineral Resources

The drill site lies on an anticlinal geologic structure that potentially could hold 30 million barrels of oil according to Steve Findeiss of Taha/Boswell.

Little oil and gas resource information is available for this area. A dry hole, with traces of oil, was drilled 12 miles to the northeast. This was the closest exploratory well to the proposed drill site. The producing Upper Valley Oil field lies 22 miles to the northeast.

The surface geology of the drill site and access road is entirely within the Navajo Sandstone which is highly jointed in the drill site area. Less than 100 vertical feet above the drill site is the contact with the overlying Carmel Formation.

#### C. Soils

Soils along most of the access and at the drill site are sandy loams derived from the Navajo Sandstone. The slight clay content was probably derived from the Carmel formation. Sandstone outcrops exist along the southeastern edge of the drill pad and along the northern edge of the pad within a small shallow ephemeral drainage. Soil depths are estimated to range from 0 to 4 feet, thickening from east to west. A white carbonate soil layer occurs several inches below the soil surface. The soils are likely to be a suitable growth medium.

Erosion potential at the drill site is generally low because of the low slope angle (0 to 5 percent), generally well drained character of the soils, and the existence of resistant bedrock areas.

#### D. Hydrology

As described above, a small shallow ephemeral drainage crosses the northern edge of the proposed drill site. The existing access crosses intermittent drainages in the NW¼ Section 28 and SW¼ Section 16, T. 39 S., R. 3 W. Passable (drivable) road washouts exist in these areas. The washouts are typically about 1 foot deep and 1 foot wide. Other than sheet wash during heavy showers, no other signs of surface flow are associated with the proposed drill site and existing access.

The permeable nature of the Navajo Sandstone, the jointed strucutre of the bedrock, and well drained character of the soil of the project area indicate that percolation rates would be relatively fast.

#### E. Climate

The ground elevation of the drill site is 6938 feet above sea level.

Annual precipitation is approximately 12 inches, most of which falls as rain from thunder storms. Some winter snowfall also occurs.

#### F. Vegetation

Vegetation and approximate percentage of vegetation at the drill site area is as follows: (A) Grasses - Indian rice grass (1%), mutton grass (3%), needle and thread and blue gramma grasses (trace); (B) Forbes - Parea breadroot, yucca, beard tongue and mustard (trace); (C) - Trees and Shrubs - two needle pinyon (54%), Utah juniper (25%), big sagebrush (8%), birchleaf mt. mahogany (2%), squaw apple (1%), antelope bitterbrush (trace), manzanita (1%), Utah serviceberry (5%), cliffrose (trace), big rabbitbrush (trace), single leaf ash (trace). The above vegetation covers approximately 20 to 25 percent of the ground surface of the drill pad area.

The Parea breadroot is proposed to be listed as a threatened plant species. Eight plants occur in the south central part of the proposed pad within 25 feet of the south end centerline. Many other plants occur in scattered locations down the ridge to the south of the pad, indicating that the drill pad covers only a small portion of the total population on this ridge. No listed threatened or endangered plants occur within the project area. (Appendix B).

#### G. Wildlife

Approximately 2 acres of wildlife habitat would be affected by this project. Animals found in the general area of the site are typical of those found in the pinyon/juniper community throughout the Kanab Resource Area.

These may include: horned lizard, western collard lizard, side-blotched lizard, various songbirds, common raven, white-throated swift, canyon wren, redtailed hawks, cooperhawk, jackrabbit, cotton-tail rabbit, antelope ground squirrel, various mice species, kangaroo rats, coyote, gray fox, mule deer, mountain lion. No threatened or endangered animal species were found to be present at or near the proposed project. (Appendix C).

#### H. Paria Hackberry Wilderness Study Area - Wilderness Review Status

The proposed drill site and approximately & mile of the existing access lie within the Paria Hackberry Wilderness Study Area. A preliminary site specific analysis was completed and published by the Cedar City District on July 30, 1982. A statewide Wilderness EIS is presently being prepared which will make wilderness suitability recommendations for all Utah BLM Wilderness Study areas. The area is presently managed under the BLM Policy and Guidelines for Lands Under Wilderness Review, and the proposed action will be subject to the nonimpairment criteria.

#### I. Recreational Use

Recreational use of the project area portion of the wilderness study area is minimal. It probably receives some hunter use. The canyon area below the project area receives minimal hiker use.

#### J. Visual Resources

The proposed drill pad and existing access lie on a bench on the gentle eastern sideslope of a ridge, 600 feet above the near vertical walled Deer Range Canyon as shown on the enclosed map. The visual character of the drill site area can be visualized by examining photo number 3. The area is a typical pinyon/juniper vegetative site common to the Kanab Resource Area. Photographs included in Appendix E should be examined for further information on the area's visual characteristics.

The canyon below the drill site is narrow and winding with interesting and spectacular canyon walls. (Photo number 4). The east side of Deer Range Canyon which displays near vertical paralleled joint structures, and large scale crossbedding is visible from the east edge of the drill pad (Photo number 5) and the existing access road. The canyon bottom is only visible by hiking down the ridge

below the drill site. The drill site and access are only visible from the ridge east of Deer Range Canyon and the immediate vicinity of the site itself as noted on map number 2.

The visual character of the existing areas outside the WSA is similar to that described above as it parallels Tank Canyon (tributary to Deer Range Canyon). Further north the area crosses rolling pinyon and juniper hills and sage flats.

#### K. Cultural Resources

A cultural resource inventory was conducted in the project area by La Plata Archaeological Consultants. No cultural resources were found within the project area. (See Appendix D).

#### L. Special Environmental Factors

No floodplains/prime unique farmland, areas of critical environmental concerns (ACEC), threatened or endangered species or historical/archaeological resources are located in the project area.

#### IV. ENVIRONMENTAL CONSEQUENCES OF PROPOSED ACTION

#### A. Soils

The existing soil profile would be altered and the carbonate and substratum rocky layers mixed. Mixing of the soil material will change the color and texture of the soil on the reclaimed area.

#### B. Vegetation

The drill pad construction would remove the plant species described in the affected environment section over a 2-acre area. Success of the revegetation/reclamation measures described in the APD cannot be assured due to uncertainty regarding rodent and livestock use and weather conditions. The eight Parea breadroot plants (proposed threatened plant species) at the edge of the proposed drill pad would be destroyed under the proposed action. Although they represent only a small portion of the total population on the ridge, the Bureau's T&E plant specialist recommends that the plants be avoided.

#### C. Wildlife

Approximately 2 acres of wildlife habitat would be disturbed for about 35 days. Both large and small animals utilizing the site would be temporarily displaced. After reclamation the animals would be able to move back to the site and would not be affected significantly over the long term.

#### D. Paria Hackberry Wilderness Study Area

The solitude opportunities associated with the drill site will be temporarily impaired by equipment noise and the visual aspects of the drill pad construction and drilling activities (35 days). These activities will not be visible from Deer Range Canyon, but they will be visible from the ridge top east of Deer Range Canyon and the site area itself. The noise impacts could carry into Deer Range Canyon.

The site is located near the northwestern boundary of the WSA and is not visible from the WSA as a whole. It is estimated that the site could only be seen over a 210-acre area which is only .15 percent of the 135,822 acres in the WSA.

Initial reclamation will include recontouring to near original form and the planting of seedlings and seeding. Seedlings will contrast in size with the mature trees and shrubs of the surrounding area. However, at this time natural succession will begin. Thus, the proposed action meets the wilderness protection standards of the BLM Policy and Guidelines for Lands Under Wilderness Review.

#### E. Recreational Use

During drill pad construction, drilling and rehabilitation work (about 35 days), could have some disruption of visitor use in the form of visual quality changes and noise created by vehicles and drilling.

After reclamation, noise impacts would be eliminated and visual impacts would be reduced but not completely eliminated. See also visual resources below.

#### F. Visual Resources

The drill pad and equipment could be seen over a 210-acre area as determined by a line of sight analysis.

After reclamation, which includes reseeding, planting of seedlings, and recontouring to near original form, there would be the following changes from the existing visual conditions: Changes in soil color would result, and the size (form) contrast between mature trees and shrubs and the seedlings of the reclaimed site could be noticeable.

Only minimal grading and culvert placement would occur along the existing access outside the WSA. Therefore, there would be no significant visual changes.

#### V. ENVIRONMENTAL CONSEQUENCES OF THE NO ACTION ALTERNATIVE

This alternative would create no impact to the existing environment.

Natural biological and physical processes would continue being the dominant forces in the environment.

This alternative would deny the lease holder opportunity to gain new oil and gas resource information about the area. This drill data would be useful in future congressional evaluations of the area's wilderness potential.

#### VI. MITIGATION OF PROPOSED ACTION

The following stipulations will be required.

- 1. Initial revegetation must be done in the fall of 1985.
- 2. Revegetation efforts will be required until considered successful by the authorized officer.
- 3. In order to ensure that the eight individual Parea breadroot plants that lie near the south end centerline of the pad are not impacted, the area will be flagged by BLM personnel and avoided by the operator.
- 4. The area actually excavated for the drill pad must not exceed the area needed for operations.
- 5. All efforts must be made to place the drilling equipment within the topography such that surface disturbance will be kept to a minimum.
- 6. All trees and limbs exceeding 4" in diameter will be cut into conveniently manageable lengths and neatly stockpiled outside the Wilderness Study Area in an area designated by the Authorized Officer. Smaller vegetative waste will be stockpiled and burned except for materials such as twigs and needles suitable for mulch which may be applied to the reclamation area to enhance moisture holding capabilities of the soil. When possible, stumps may be disposed of by burning. However, any remaining unburned stumps and other vegetative waste must be disposed of outside of the Wilderness Study Area in an area designated by the Authorized Officer.
- 7. Any rocky or carbonate soils must be placed at the bottom of the reclaimed soil profile in order to avoid changes in soil color and texture, and to ensure successful revegetation. Any available topsoil will be stockpiled for replacement at the surface during reclamation.

#### VII. SHORT TERM USE VERSUS LONG TERM PRODUCTIVITY

In the short term, the proposed oil and gas exploration would provide temporary employment for drilling and construction contractors.

Local motel and restaurant businesses in Kanab would be economically benefitted by project related personnel use.

In the long term, should exploration yield producible oil and gas, it is possible that the drill site would be permanent. Additional wells might be drilled in the area increasing access and drill pad construction impacts. There would be possible cumulative impacts to visual resources, recreational use, watershed conditions, socioeconomics, etc. Oil and gas production would provide potential beneficial social and economic impact to the local communities and to the oil and gas industry.

The future legal status of wilderness at the site is unknown at this time. Three alternative futures are possible. 1) The site could remain under review status for the long term. 2) The site could be included in the National Wilderness Preservation System by statute. 3) The site could be released by statute from review. Additional Environmental Analysis would be required prior to approval of any drilling or development subsequent to the proposed action.

#### VIII. IRRETRIEVABLE AND IRREVERSIBLE COMMITMENT OF RESOURCES

If no producible oil and gas is discovered, the commitment of resources would not be unretrievable because wilderness character would not be impaired during the exploration phase. If producible oil and gas is discovered, it is not known what commitment of resources would exist because of the uncertain future legal status of the WSA.

#### XI. PERSONS AND GROUPS CONSULTED

The following persons were consulted:

Gary McFarlane - Utah Wilderness Society

Mr. McFarlane was concerned about the area's revegetation potential.

State of Utah Division of Wildlife Resources

Division of Wildlife Resources see no serious conflicts with wildlife resulting from a test well in the Paria-Hackberry area, T. 39 S., R. 3 W., Section 33, NWNE, Kane County.

#### SURFACE USE PROGRAM

1. Existing roads:

The location is at the end of the "Deer Range Road" (plat attached), which is apparently an old logging road running south about 4.8 miles from the county-maintained Kanab-Cannonville road. The Deer Range Road generally follows the elevation contours. It was bladed at some time in the past, and the cuts and embankments are quite noticeable. Near the south end of the road, dead trees cleared to create the original roadway are prominent.

All roads will be maintained in their existing condition, except for the slight improvements noted below.

#### 2. Roads to be constructed: none

Road modifications proposed:

In accordance with the guidelines developed by BLM field personnel following an inspection of the access road and drillsite, very little improvement of the Deer Range Road is planned. The minor improvements that are planned will be essentially undetectable to the casual visitor.

The road surface will be very lightly bladed in the most heavily eroded sections, and about 3 one-foot-diameter culverts will be installed in existing narrow drainages (6 or 8 inches wide and about one foot deep) which cut across the road. The hairpin turn in NW4 of section 28 will be given a larger radius, but this will not require cutting any trees or doing any sensible earthmoving, since the area for the necessary 20 feet on the outside of the existing turn is level and clear.

In view of the lack of casual traffic and the objective of not improving access to a sensible degree, we propose to leave the road at its existing single-lane width. If this is approved, about five turnouts would be provided to allow vehicles to pass.

3. Existing wells within one mile: none.

- 4. Location of existing/proposed facilities if well is productive: A pump would occupy approximately a 15' x 30' area over the well. Tanks could be located to best suit aesthetic criteria. In the event of a discovery, the tanks could possibly be located at the turnoff from the Kanab-Cannonville road to the Deer Range Road. Generally, this information cannot be accurately presented at this time.
- 5. Water supply: Commercial sources, either at Kanab or Cannonville, trucked to the location.
- 6. Construction materials: The drill pad will be made from material removed from the reserve pit and from the uphill edge of the pad. No other local construction material will be utilized.
- 7. Methods for handling waste Disposal: Ordinary trash, sewage, and chemicals and any oil or salt water produced during testing will be trucked out and disposed of in approved commercial facilities. The reserve pit will be lined with 15 mil PVC liner to prevent seepage. Since the drilling fluids to be used are water-based, the reserve pit will be allowed to dry out and will then be filled in.
- 8. Ancillary facilities: None.
- 9. Well site layout: Plat is attached. Three sides of the reserve pit will be fenced during drilling, with the fourth side fenced when drilling is completed.
- 10. Plan for Reclamation of the Surface: After the pits have dried (1-2 months after well completion), the area will be graded to approximately the original contours. The drill pad will then be replanted and re-seeded as follows:

Pinon pine - 10 seedlings per acre

Juniper - 10 seedlings per acre

Birch leaf mountain mahogany - 10 plants per acre

Antelope bitter brush - 1 pound of seed per acre

Yellow sweet clover - 1 pound of seed per acre

Indian rice grass - 1 pound of seed per acre

Galleta - 1 pound of seed per acre

Seedlings will be mulched. Re-seeding and re-planting will take place next spring, with human reclamation actions completed by June, 1985.

Note that proposed site reclamation will not affect the already-existing road berms or banks, nor the substantial number of dead trees piled beside the road from when it was originally bladed some years ago.

- 11. Surface ownership: The well location is federally owned, as are the lands crossed by the Deer Range Road, except that section 16 is owned by the state of 'Utah.
- 12. Additional information: This application was prepared by Steve Findeiss (tel. 405 840-1199) in conjunction with information supplied by the operator and BLM personnel, and following inspections of the location on 27 May and 15 August, 1984.

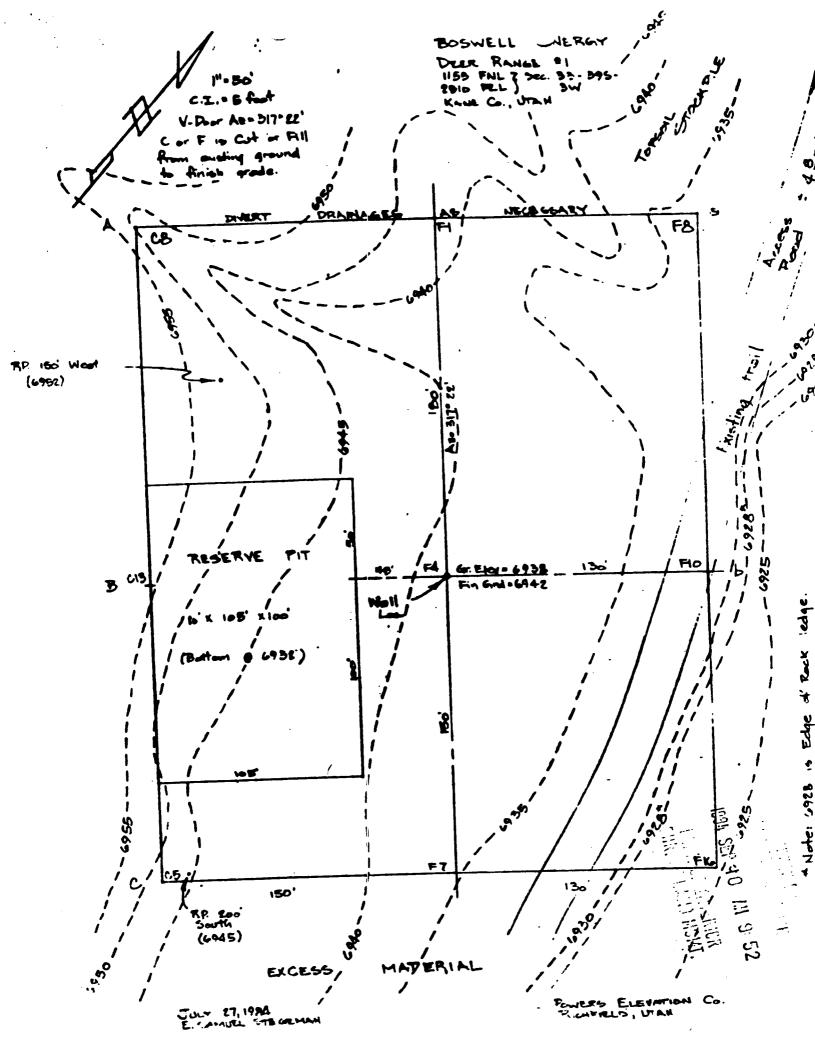
13. Operator's field representative:

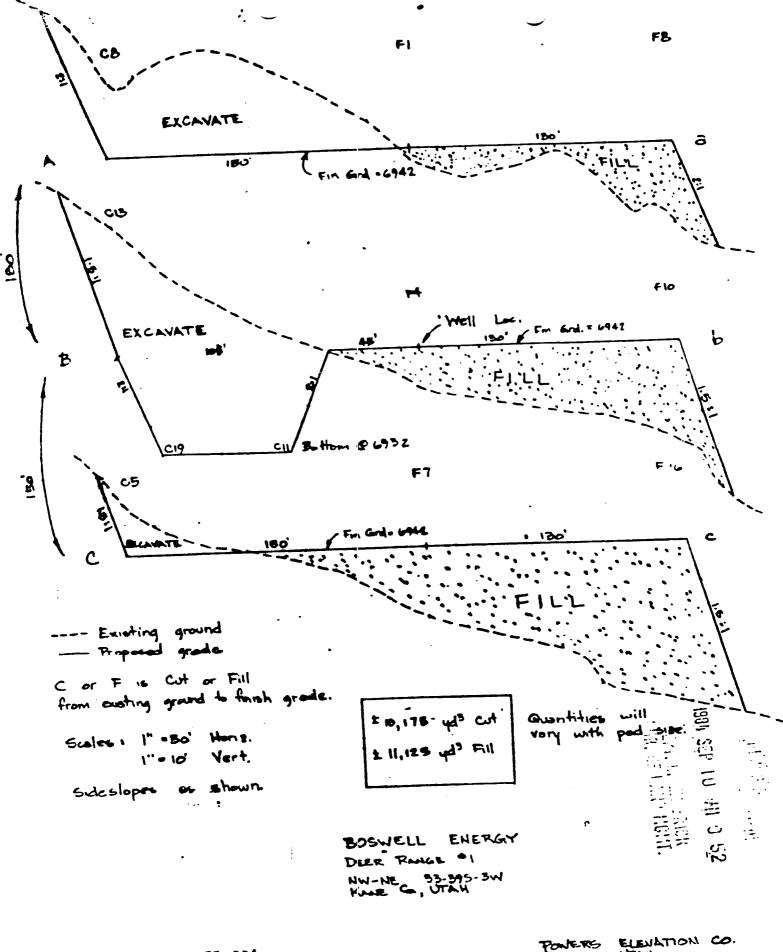
Mr. John Gordon Gordon Engineering P. O. Box 3525 Grand Junction, CO 81502 303 245-1958

I certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Boswell Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Steven H. Findeiss

Agent for Boswell Energy Corporation





July 27, 1984 E.S.S

POWERS ELEVATION CO.

UNI	ITED STATES	
DEPARTMENT	OF THE INTERIOR	l
BUREAU OF	LAND MANAGEMENT	
CEDAR CITY	DISTRICT OFFICE	:

Summary Report of on for Botanical or Zoological

Mitigation Acceptable YesNo	BLM Use Only: Use Ini Case File No.	tials		
Mitigation Acceptable YesNo Comments:	Report Acceptable	YesN	lo	
	Mitigation Acceptable Comments:	Yes_	No	

Resources	
Project Name, Developer	•
Boswell Energy Corp.	
Legal Description of Project Area (Attach Ma	p Also)
Sec. 33, T 39 S, R 3 W	
Type of Project	4. Project or EAR No.
Construct Drill Pad	
Potential T/E Plant/Animal Species Affect	ed threatened)
Psoralea pariensis (proposed to be listed as	threatened
Dates of Field Work August 15, 1984	· .
Description of Examination Procedures Walk over the flagged site looking for the 1	isted and proposed T&E plants of this area.

Description of Findings (Attach forms of detailed report, if appropriate)

There were approximately 8 small plants of "Psoralea pariensis" at the south end of the flagged drill pad. Mark littlefield saw many other plants of "Psoralea pariensis scattered down the ridge to the south of the drill pad, indicating that the drill pad covers only a small portion of the total population on this ridge.

Conclusions/Recommendations

This project covers only a small edge of this one population of this (proposed to be listed) plant. However, I recommend that the plants at the south end centerline of the pad be avoided because of the minimal impact to operations by avoidance (Personal communication by Pete

Kilbourne, BLM with Steve Findeiss, Taha/ Boswell Corp).
Signature of Person in Direct Charge of Field Work

Blaine B. Lunceford 10-19-8

Signature of Title of Institutional or BLM Officer Responsible

£

PPENDIXC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CEDAR CITY DISTRICT OFFICE

Summary Report of Inspection for Botanical or Zoological Resources

BLM Use Only: Use	Initials			
Case File No.				
Report Acceptable	Yes	No	<del></del>	
Mitigation Acceptab Comments:	le Y	es <b>!</b>	No	

Project Name, Developer

Boswell Energy

Legal Description of Project Area (Attach Map Also)

See attached E.A.

Type of Project

4. Project or EAR No.

wildcat explortary well

UT-040-84-96

Potential T/E Plant/Animal Species Affected

Peregrine falcon, Golden eagle

Dates of Field Work

Sept. 11, 1984 Oct. 12, 1984

Description of Examination Procedures

Walked over the proposed site, reviewed raptor files, reviewed wildlife files.

Description of Findings (Attach forms of detailed report, if appropriate)

No threatened or endangered species were found to be present on the site.

Conclusions/Recommendations

This project will not affect any T&E species.

It is my recommendation that this project may proceed with regards to wildlife.

Signature of Person in Direct Charge of Field Work

Mark a Frithfull

Oct. 18, 1984

Signature of litle of Institutional or BLM Officer Responsible

Mark a Southfull

Wildlife

Biologie

. Utah State Office		Report Accepta	ble Yes	_ No	
Summary Report of PEN Inspection for Cultural Resources	IDIX D	Mitigation Acc	eptable Yes _	_ No	
Report Title [L A C    R E P O R T	8   4   6   3				
Development Company Boswell Energ	IY		40		
Report Date   0 8  · .   1 9 8 4	 4	. Antiquities F	Permit No8	4-UT-011	
Responsible Institution LIA PLA	JTIAI	در cd	ounty Kane		
Fieldwork Location: TWN [3 9 S ]	Range [3 W	Section(s	ن إواعا ليافيا	[1]7 [2]1	
78 81	Range       .82 Range	Section(s  85 Section(s	86 87 88 89	9091 9293	
PO: PONY EXPRESS, BR: BEAR RIVER, PR: PRICE B: BOOK CLIFFS HR: HOUSE RANGE, SE: SEVIER HM: HENRY MOUNTAINS, BE: BEAVER RIVER, DX KA: KANAB ES: ESCAL ANTE. SJ: SAN JUAN, G SR: SAN RAFAEL, DM: DIAMOND MOUNTAIN,	. 98	101	102103 104105	106107 108109 69,81,85,97,101 Only	i1;
Description of Examination Procedur	es:				
series of transects spaced well pad center stake and troute inventoried; 20m wid	wo parallel	transects along	ca. 4.9 miles	• –	
Linear Miles Surveyed 5   17		10. Inver	ntory Type		
Definable Acres Surveyed 5 0 1 1 23		R=Red I=Int	connaisance ensive distical Sample		
Legally Undefinable Acres Surveyed  (*A parcel hard to cadastrall24 locate i.e., 128n)	ter of section)				•
. Description of Findings (attach ap	pendices, i	f appropriate)	12. Number Sites No sites = 0	s Found: 0	13
no cultural resources found			13, Collection:	N Y= Yet . 11=	No
•				•	
. Actual/Potential National Register	Properties	Affected:		•	
NONE					
<ul> <li>Literature Search, Location/Date:</li> <li>attempt was made at Kanab B</li> </ul>	LM office on	n 8/3/84; unable	to complete	•	
- Conclusion/Recommendations:		· · · · · ·			
archeological clearance for	the project	is recommended	l	•	
Pott of Hande	8/6/8	34	•		
			<u> </u>		~

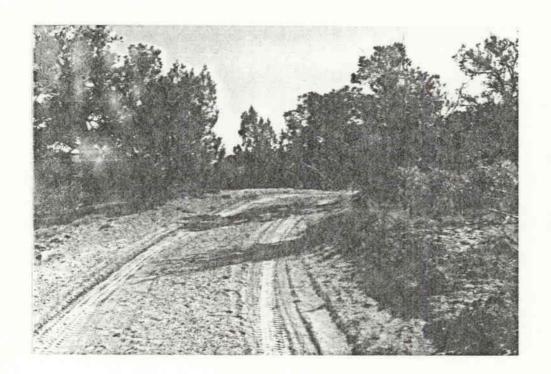


Photo #1

View of existing access just within the WSA. Aspect is looking south into the WSA proper.

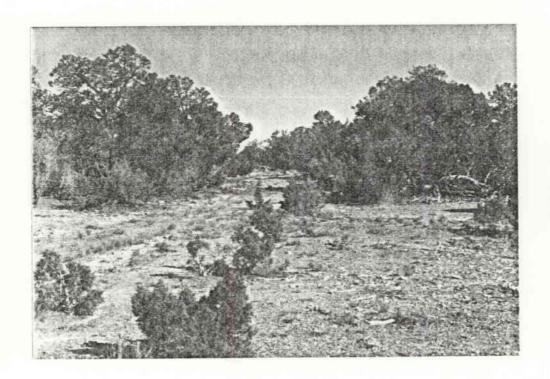


Photo #2

View of access approximately 1/3 mile after entering the WSA.



Photo #3

View of proposed drill pad location.

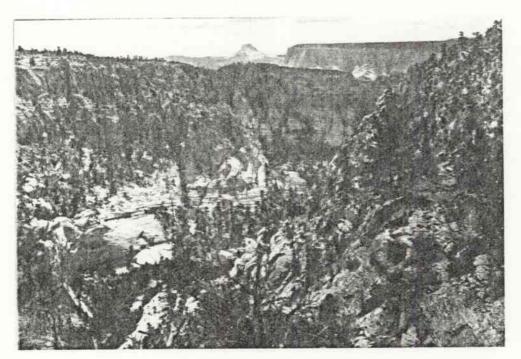
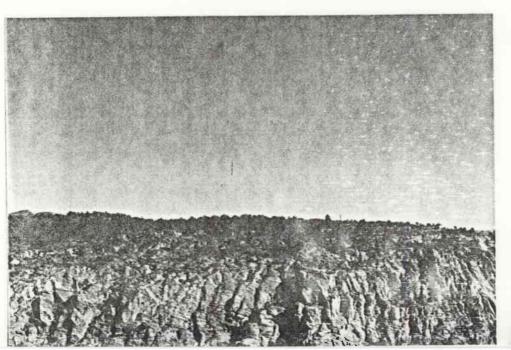


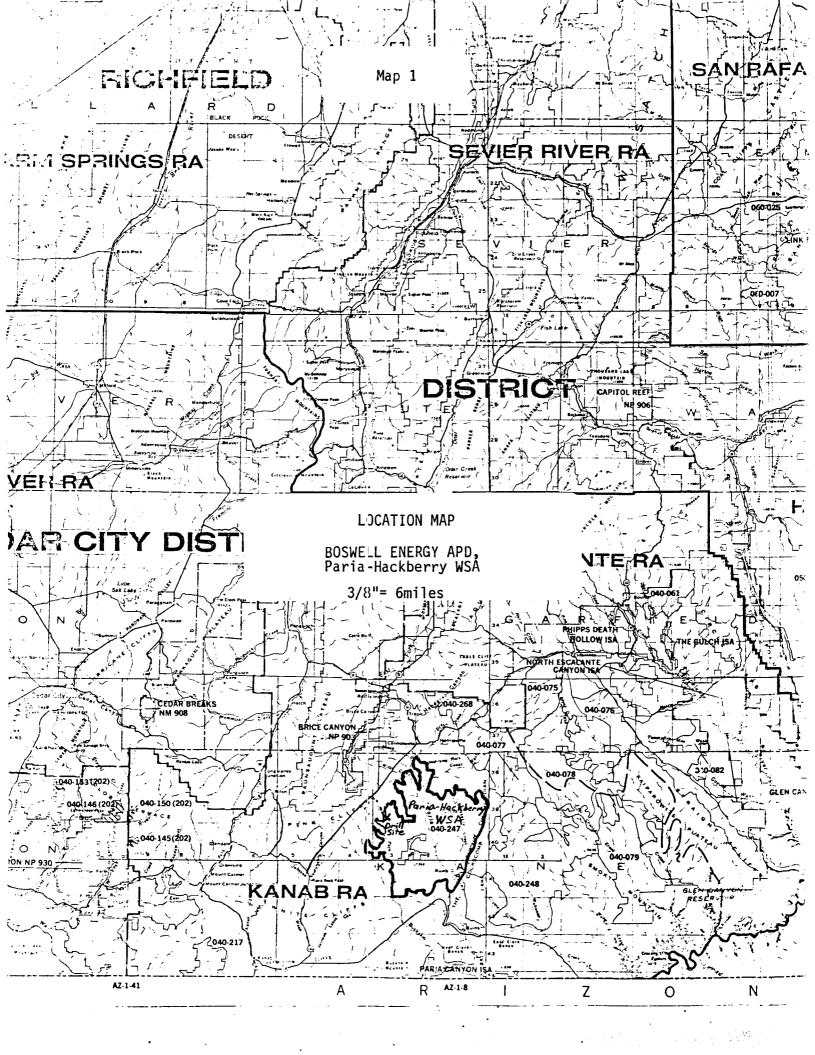
Photo #4

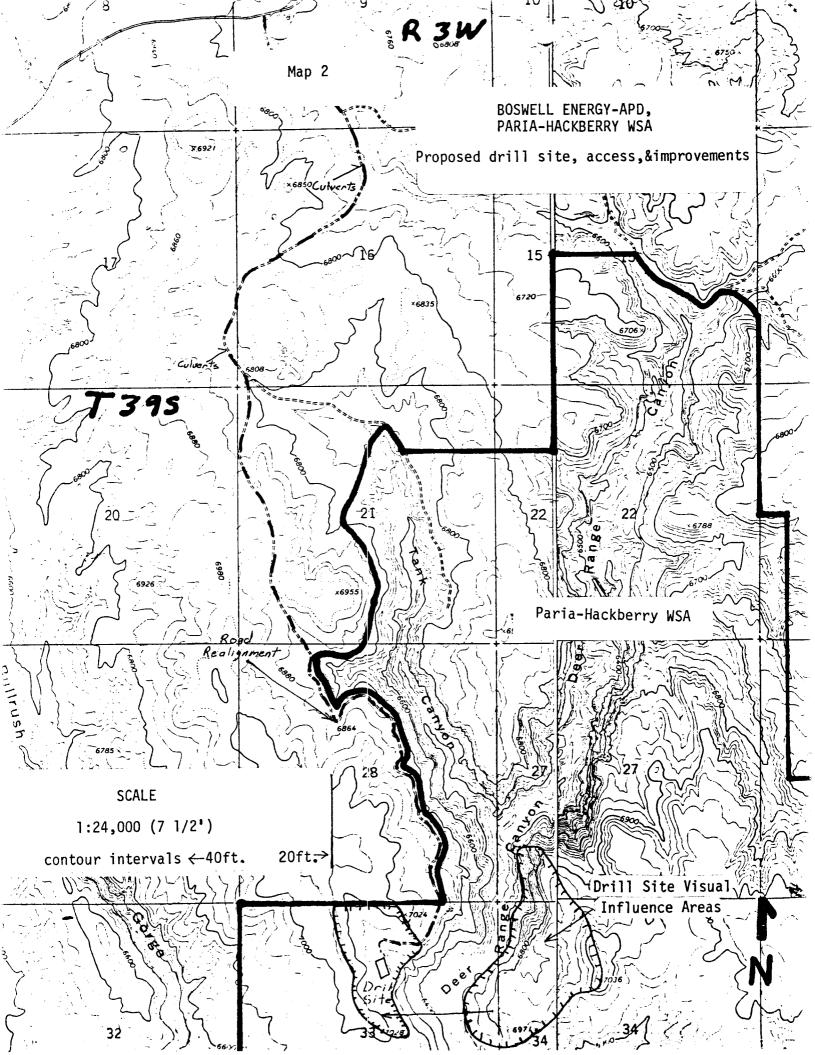
View of Deer Range Canyon taken about 100 feet east of drill pad location.



#### Photo #5

View of ridge on east side of Deer Range Canyon as seen from general location of drill pad. This ridge is the same one shown on the left side of Photo #4. By looking back from this ridge the drill pad can be seen.





## United States Department of the Interior

3000 UT-042

BUREAU OF LAND MANAGEMENT Cedar City District Office P.O. Box 724, 1579 North Main Street Cedar City, Utah 84720 (801) 586-2401

October 5, 1984

Boswell Energy Corporation 6600 N. Harvey Suite 100 Oklahoma City, Oklahoma 73116

007 91984

Attn: Steven H. Findeiss

Dear Mr. Findeiss:

On September 10, 1984, the BLM received the Application for Permit to Drill (APD) the Deer Range Federal # 1, located in T. 39 S., R. 3 W., NWNE, Section 33. The Cedar City District is making every effort to process the application as expediously as possible. However, because the proposed well is located within the Paria-Hackberry wilderness study area, there are important differences in processing this APD than there would be for a well that is not located in a wilderness study area. Because wilderness study areas are managed under strict guidelines to ensure non-impairment of wilderness values, and because of the controversy often resulting from proposed actions in these areas, we feel that ample opportunity must be allowed for adequate public involvement in the approval process.

The process we are following consists of notifying all interested parties by mail of the proposed action and that we are in the process of completing an environmental analysis. Those who choose to provide input based on this notification, as well as others who request it, will be sent a copy of the environmental analysis, when completed, for comments. The EA will then be finalized and a decision document prepared. Assuming the decision is to approve the APD, a minimum of 15 additional day's time must be allowed to give interested parties sufficient time to prepare a response, legal or otherwise, to the decision.

This process will not permit final action on the APD before December 15, 1984. While we regret any inconvenience or delays the above procedure may cause, we feel there must be time for full public involvement in the process. Since the affected unit will expire after October 23, 1984, unless the obligation well is spudded, and since we do not foresee approval of the APD prior to December 15, 1984, we encourage you to apply for an extension on your obligation date if you do not wish to risk expiration of the unit. This request should be made directly to the State Director, Bureau of Land Management, Utah State Office, University Club Building, 136 East South Temple, Salt Lake City, Utah 84111.

Morgan S. Jensen District Manager

cc: Bill Martens, UT-922

Rex Rowley, Kanab Resource Area

Form 3160-3 (November 1983) (formerly 9-331C)

### UNITED STATES DEPARTMENT OF THE INTERIOR

TE• SUBMIT IN TRUP (Other instructions on reverse side)

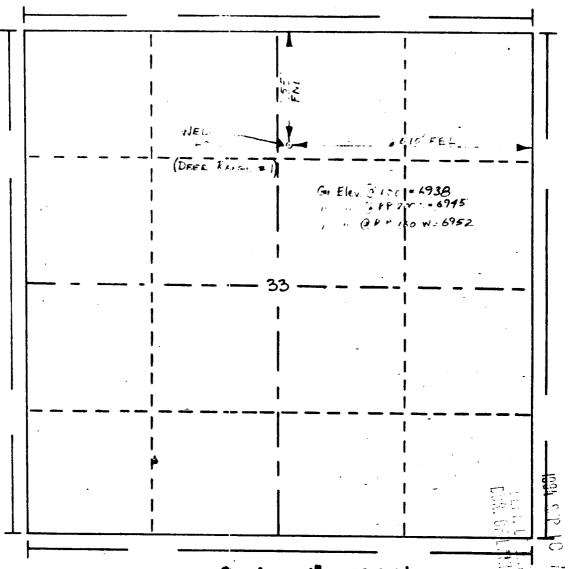
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

DEPARTMENT OF THE INTERIOR			5. LEASE DESIGNATION AND SERIAL PO.	
BUREAU OF LAND MAN		U-40414		
APPLICATION FOR PERMIT TO DRILL	., DEEPEN, OR PLUG E	BACK	. IF INDIAN, ALLOTTES OR TRIBS NAME	
DRILL 🖾 DEEPEN	N [] PLUG BA	OK 🔲 📑	. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL	SINGLE [ ] MULTIS		Deer Range	
OIL WELL OTHER 2. NAME OF OPERATOR	ZONE SONE	<u> </u>	Federal	
Boswell Energy Corporation		-	NELL NO.	
ADDRESS OF OPERATOR			#1	
6600 N. Harvey, Suite 100, Oklahoma	City. OK 73116	1	O. PIBLD AND POOL, OR WILDCAT	
i. LOCATION OF WELL (Report location clearly and in accordance	with any State requirements.*)	<del></del>	Wildcat	
1160' FNL, 2510' FEL (NWNE)		1	1. SBC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. some Same		ļ	33-T39S-R3W, SLM	
4. DIRTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR	POST OFFICE®	——  <del>1</del>	2. COUNTY OR PARISH   18. STATE	
		į	Kane Utah	
D. DISTANCE FROM PROPOSED*  LOCATION TO NEAREST 130' to a lease owr PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any by Boswell et	16. NO. OF ACRES IN LEASE THE TENTE TO THE T	17. NO. OF TO THIS	ACRES ASSIGNED 160	
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	19. PROPOSED DEPTH		OR CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE, FT. NONE	7,000	Ro	tary	
1. ELEVATIONS (Show whether DF, RT, GR, etc.) 6938 Ground elevation	<del></del>		10 October, 1984	
	JAN 3 0.  DIVISION GAS & M	OF OIL	* 1	
24.				
BIGNER MINING	Agent for Operat	tor	DATE 24 August 1984	
This space for Federal or State office use)				
PERMIT NO.	DISTRICT MANAC	nen		
APPROVED DE STATEMENT	- TITLE	フにパ	MT 25 Jan 1985	
	OTTIONS OF APPROVAL ICHED TO OPERATORS COPY		FLAIRING OR VENTING OF GAS IS SUBJECT TO NTL4-A DATED 1/1/80	

\*See Instructions On Reverse Side

FORM F-100

R. 3W



Scale ... I" = 1000'

Powers Elevation of Denver, Colorado

has in accordance with a request from Sneve Finders

for Boswell Energy

determined the location of Deer Range # 1

to be 1155' FNL & 2510' FFL of Section 33 Township 39...

to be 1155' FNL & 2510' FEL of Section 33 Township Range 3 Wort of the Saut Lake Meridian

KANEL County, UTAH

I hereby certify that this plat is an accurate representation of a correct survey showing the location of

Date: JULY 27, 1984

& Samuel Stegena

Licensed Engined-State of Colorado No. 20596 Utah exception

T. 395.

#### CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company:	Boswell Energy Corporation	Well No:	#1
Location:	1160' FNL, 2510' FEL (NWNE) Sec. 33 T 39 S., R 3 W.	Lease No:	U-40414

# A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR 3160), approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

- 1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned shall be identified in accordance with 43 CFR 3162.6. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
- 2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil an gas shows will be adequately tested for commercial possibilities, reported and protected.
- 3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 3160-5). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 3160-5) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that

time, a followup report on Form 3160-5 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 3160-6 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.4.1. Emergency approval may be obtained orally, but such approved does not waive the written report requirement. Any additional construction, reconstruction, or alteration of the facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

- 5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with Onshore Oil and Gas Order No. 1; VIII. Reports and Activities Required after Well Completion. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cutting, fluid, and/or gas) will be submitted only when requested by this office.
- 6. Significant surface values are involved at this location. Accordingly, you must notify the District Manager at least 48 hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

The Cedar City District Office Address is:

1579 North Main, Cedar City, Utah 84720 (801) 586 2401

Your contact is: Theron Mitchell

Office Phone: (801) 586 2401

Home Phone: (801) 826 4347 or 586 2719

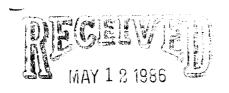
- 7. Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.
- 8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- 9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
- 10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
- 11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
- 12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communications, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location (4,4 Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - c. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located, otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

#### SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

The following stipulations will be required.

- 1. Initial revegetation must be done in the fall of 1985. Only native plant species will be used for revegetation.
- 2. Revegetation efforts will be required until considered successful by the authorized officer.
- 3. In order to ensure that the eight individual Paria breadroot plants that lie near the south end centerline of the pad are not impacted, the area will be flagged by BLM personnel and avoided by the operator.
- 4. The area actually excavated for the drill pad must not exceed the area needed for operations.
- 5. All efforts must be made to place the drilling equipment within the topography such that surface disturbance will be kept to a minimum.
- 6. All trees and limbs exceeding 4" in diameter will be cut into conveniently manageable lengths and neatly stockpiled outside the Wilderness Study Area in an area designated by the Authorized Officer. Smaller vegetative waste will be stockpiled and burned except for materials such as twigs and needles suitable for mulch which may be applied to the reclamation area to enhance moisture holding capabilities of the soil. When possible, stumps may be disposed of by burning. However, any remaining unburned stumps and other vegetative waste must be disposed of outside of the Wilderness Study Area in an area designated by the Authorized Officer.
- 7. Any rocky or carbonate soils must be placed at the bottom of the reclaimed soil profile in order to reduce changes in soil color and texture, and to ensure successful revegetation. Any available topsoil will be stockpiled for replacement at the surface during reclamation.



DIV-SION OF OIL, GAS & MINING April 5, 1986

Boswell Energy Corporation 6600 N. Harvey, Suite 100 Oklahoma City, OK 73116

Re: Rescind Application for Permit

to Drill

Well No. 1 (Deer Range Unit) Section 33, T. 39S., R. 3W.

Kane County, Utah Lease No. U-40414

#### Gentlemen:

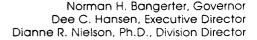
The Application for Permit to Drill the referenced well was approved on January 25, 1985. Since that date no known activity has transpired at the approved location. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

Sincerely,

District Manager

bcc: U-922

Well File





355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 13, 1986

Boswell Energy Corporation 6600 N. Harvey, Suite 100 Oklahoma City, Oklahoma 73116

Gentlemen:

RE: Well No. Deer Range Unit Federal #1, Sec.33, T.39S, R.3W, Kane County, Utah, API NO. 43-025-30020

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, <u>prior</u> to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

John R. Baza

Petroleum Engineer

sb cc: BLM-Salt Lake D. R. Nielson R. J. Firth

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